



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/041,865

Filing Date: 01/07/2002

Applicant: Malmberg et al.

Entitled: PROCESS FOR THE ISOLATION OF  
POLYHYDROXY CYCLIC CARBOXYLIC ACIDS

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Commissioner for Patents  
Washington, D.C. 20231

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8 (A)**

Date of Deposit: 07/03/2003

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231.

*Jody K. Prince*  
Jody K. Prince

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97-1.98**

As authorized and encouraged under 37 CFR §§ 1.97-1.98 and the provisions of MPEP §§ 609 and 707.05 (b), Applicant(s) submits herewith certain patent references, publications and/or other information which the Patent and Trademark Office may wish to consider in examining the above-identified patent application. The references and information are listed below and on attached form PTO-1449. This IDS is the second submission. A review of Applicant's file reveals that the original IDS was mailed on May



, 2002 with an error in the serial number. A copy of that IDS is attached to verify the submission.

10/041,865

U.S. PATENT DOCUMENTS

RECEIVED

U.S. PATENT NUMBER	INVENTOR(S)
3,546,072	Araki et al.
4,769,061	Comai
5,214,165	Sutherland et al.
5,605,818	Katsumata et al.

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FOREIGN PATENT DOCUMENTS

COUNTRY	PATENT NO.	INVENTOR(S)
NONE		

OTHER DOCUMENTS

1. "Recovery of Shikimic Acid Using Temperature-Swing Complexation Extraction and Displacement Back Extraction," Miles, et al., *Isolation & Purification*, 1994, vol. 2, pp 75-82.
2. "The Biosynthesis and Synthesis of Shikimic Acid, Chorismic Acid and Related Compounds," Campbell, et al., *Synthesis*, Feb., 1993, pp. 179-193.
3. "Chemical Synthesis of Shikimic Acid and Its Analogues," Jiang, et al., *Tetraedron* Report No. 449, vol. 54, 1998, pp 4697-4753.

A copy of each document is included for the express purpose of providing the Patent and Trademark Office with ample opportunity to evaluate the same and arrive at

*Handwritten signature*

9/22/03

IDS 5-6 are duplicates only this page contains all ref  
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an independent assessment of the materiality of each, if any, to the examination of the above-identified application.

In reviewing the enclosed copies of the above documents, the Examiner is instructed to ignore any underscoring or highlighting which may have been done because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

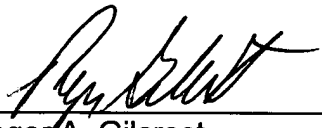
The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law.

Applicant(s) respectfully requests that the documents cited herein be made of record in the normal manner and that such documents appear on the printed patent as being considered and made of record.

The Commissioner is authorized to charge any fees in connection with this submission to Deposit Account No. 19-4076. A duplicate of this document is enclosed.

Respectfully submitted,

Date: June 18, 2003

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